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DISTRIBUTION PATTERNS FOR U.S. RICE, 1973/74

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DISTRIBUTION PATTERNS FOR U.S. RICE, 1973/74. By Shelby Holder, Alberta Smith, and J.C. Eiland, Commodity Economics Division, Economic Research Service, U.S. Department of Agriculture. ERS Report No. 624.

ABSTRACT

A mail survey of all known rice millers and repackagers was made to determine rice distribution patterns for the marketing year 1973/74. Data reported include distribution by type of outlet, by region and State, by rice type, and by package size. Nearly 22 million hundredweight of milled rice was distributed in the United States in 1973/74, up 3 percent from 1972/73. Food use accounted for about three-fourths of the total and the balance went to brewers. Approximately 2.7 million hundredweight was shipped to territories and 30.1 million hundredweight was exported.

Keywords: Distribution, domestic consumption, packaging, rice.

PREFACE

This report is one in a series first initiated in 1956. Until 1971, it was updated on a 2- to 4-year basis. Since that time, it has been published annually. These reports provide information on shifts and trends occurring in distribution patterns for U.S. rice. Prior reports in this series are: ERS-567, ERS-509, ERS-484, ERS-408, ERS-186, and AMS 306.

Recognizing that a study of this nature is not possible without industry support and cooperation, appreciation is expressed to the Rice Miller's Association, the Rice Council, and to the rice millers and repackagers who provided the detailed information necessary to the report.

Washington, D.C. 20250 March 1976

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SUMMARY

Direct food use, brewing, and food processing accounted for approximately 60, 24, and 16 percent, respectively, of the 21.8 million hundredweight of milled rice distributed in the United States in 1973/74. Total distribution was up 736,000 hundredweight from 1972/73. Although distribution of rice for direct food use, the major outlet, declined slightly from 1972/73, both food processors and brewers increased their use of rice. Nearly three-fourths of the increase in domestic consumption of rice from 1972/73 to 1973/74 was accounted for by brewers.

Nearly one-half of the rice distributed domestically for direct food use in 1973/74 was shipped to the Middle Atlantic and the Pacific regions. New York received about 60 percent of the rice moving to the former region, and California received about 75 percent in the latter.

Approximately 60 percent of the rice consumed domestically for direct food use in 1973/74 was long grain, 37 percent was medium grain, and 3 percent was short grain. The long grain share was down over 10 percent from 1972/73. Medium grain rice captured most of this loss. The shares of the export market for long, medium, and short grain rice were 54, 41, and 5 percent, respectively.

Nearly 46 percent of the rice for direct food use was marketed in packages of 5 pounds or less. The remainder was divided about evenly between package sizes of 5 to 25 pounds, and those over 25 pounds. All but about 3 percent of the rice exported was in bulk or in bags over 25 pounds.

DISTRIBUTION PATTERNS FOR U.S. RICE, 1973/74

by

Shelby Holder, Alberta Smith, and J.C. Eiland [1]

INTRODUCTION

For the past decade, about 60 percent of the U.S. rice crop has been exported. Since 1972, total U.S. rice acreage has increased over one-half and production over 42 million hundredweight, largely to meet greater foreign demand. Although exports overshadow domestic use by a rather wide margin, domestic consumption is still important to a viable rice industry. In addition, the uncertainties of rice export markets amplify the importance of maintaining and expanding domestic consumption.

This report provides information on major U.S. outlets, geographic consumption patterns, use by type of rice, and data on package size for the 1973/74 marketing year. Data are compared with the prior marketing year.

Data in this report are based on a mail survey of all known rice mills and repackagers, and on supplementary data on rice distributed by the U.S. Government to schools, institutions, welfare agencies, and the Armed Forces.

DISTRIBUTION BY TYPE OF OUTLET

Domestic

Rice distributed domestically goes principally to three outlets--direct food use, processed food use, and brewing. Excluding military use, nearly 22 million hundredweight of milled rice was distributed in the United States in 1973/74, up slightly from 1972/73 (table 1). The increase was accounted for by gains in rice used in processed foods and in brewing. Although some of the rice distributed by the Armed Forces is consumed domestically, it is treated separately in this report.

Direct Food Use

About 13.2 million hundredweight of rice was distributed for direct food use in 1973/74, slightly less than in 1972/73 (table 1). Its proportion of total use declined from 63.3 percent in the previous year to 60.5 percent in 1973/74. Although rice for direct food use continues to account for a smaller proportional share of the domestic market, distribution to this outlet has grown nearly 2 million hundredweight over the past decade.

Of the more than 13 million hundredweight distributed for direct food use in 1973/74, about 4 percent was distributed by the Government, mostly for school lunch and welfare programs (table 2). These two outlets accounted for 48 and 38 percent, respectively, of the total domestic Government distributions. The South Atlantic and West South Central regions each took about a fifth of this total.

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Specialty rice (parboiled, precooked, brown, and flavored) accounted for 2.45 million hundredweight--nearly one-fifth--of the rice distributed for direct food use in 1973/74. Over one-half of this amount was parboiled rice (table 3), and one-third was precooked rice. Precooked and flavored rice were the only specialty rices showing gains over 1972/73; parboiled and brown rice distribution were down. Parboiled rice marketings dropped more than 200,000 hundredweight below 1972/73.

Mills reported that about 70 percent of the rice distributed for direct food use in 1973/74 was enriched with thiamin, niacin, and iron, and over [illegible] percent was enriched with riboflavin. Shipments of enriched rice increased over 3 million hundredweight from a year earlier.

Processed Food Use

Processed food uses of rice, including cereals, soups, baby food, package mixes, and other unclassified uses, took over 3.4 million hundredweight of rice--up about 8 percent from the previous year (table 1). Most of the rice distributed for processed food uses went to breakfast cereal manufacturers. This outlet took nearly 2.8 million hundredweight of rice in 1973/74, up about 420,000 hundredweight (table 4). With the exception of other unclassified uses, this was the only processed food use that showed an increase. Use in soups and package mixes showed a sharp decline over the past 3 years from over 1 million hundredweight in 1971/72 to a little over 250,000 hundredweight in 1973/74.

Use by Brewers

Use of rice by the brewing industry has shown almost continuous growth during the seventies. In 1973/74, brewers utilized more than 5 million hundredweight of rice and accounted for nearly one-fourth of the rice distributed domestically (table 4).

Military

With the end of the conflict in Southeast Asia, rice purchases by the Department of Defense dropped sharply. Military use of nearly 80,000 hundredweight in 1973/74 was only about one-third of the previous year's total (table 5). A sharp increase in the amount used for military feeding occurred, but purchases for overseas feeding by the military and for re-sale in commissaries fell sharply, or ceased entirely.

Territories and Exports

Approximately 3.7 million hundredweight of rice was shipped to the Territories in 1973/74, down more than 200,000 hundredweight from the year before (table 6). The decline resulted from decreased shipments to Puerto

Rico, although Puerto Rico still accounted for over 90 percent of the shipments to Territories.

Exports of 31.1 million hundredweight were reported by millers and repackagers. 2/ Over one-third of their total exports was specialty rice.

DISTRIBUTION BY REGION AND STATE

Nearly one-half of the rice distributed for direct food use in 1973/74 was consumed in the Middle Atlantic and Pacific regions. 3/ The Middle Atlantic region ranked first, followed closely by the Pacific region (table 7). Over one-half of the rice distributed to the Middle Atlantic region for direct food use went to New York, and three-fourths distributed in the Pacific region went to California (table 8).

The South Atlantic and West South Central regions, together, accounted for 30 percent of the total rice consumed for direct food use. Per capita consumption in the South Atlantic region is greatest in South Carolina and Florida: 13.5 pounds and 10.3 pounds, respectively (table 8).

Some significant shifts occurred in rice shipments to individual States. Reported shipments of rice for direct food use to New York increased by 421,000 hundredweight from the previous year. Shipments to Missouri of 352,000 hundredweight were about three times greater than in 1972/73. Medium grain rice accounted for most of the increase in both States. Reported shipments to Minnesota for direct food use declined by over 400,000 hundredweight; medium grain rice suffered most of the loss. Shipments to Texas also declined sharply, falling about 500,000 hundredweight.

Average per capita consumption of rice for direct food use in more than one-half of the regions was less than the U.S. average of 6.4 pounds. In contrast, the average per capita consumption in the top four regions was 9 pounds, 2.6 pounds above average (table 7).

DISTRIBUTION BY RICE TYPE

Distribution of rice by type is of special interest to the industry. Data on sales of different types of rice by region and State may help industry management plus marketing strategy. Also, shifts and trends in the use of rice by type provide clues as to the impact on demand for rice produced in the major rice-growing regions.

Domestic

Direct Food Use

Historically, long grain rice has accounted for one-half to two-thirds of the rice consumed for direct food use in the domestic market. However,

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2/ This figure may differ from the official export figure for this marketing year. Millers' and repackagers' shipments to the export market went mostly to exporters, who in turn may have actually exported more or less than they received.

3/ The Pacific region includes Alaska and Hawaii. See table 8 for States included in each region.

for the first time in over a decade, the share of long grain rice showed a downturn. Its proportional share was about 60 percent in 1973/74, compared with a 67-percent share the previous year (table 9). Medium grain rice rose from 31 percent of the total direct food use to 37 percent. It should be noted that the loss in the share of long grain rice was not confined to a small region or a few markets, but actually occurred in seven out of nine regions. The bulk of the rice distributed to the New England, South Atlantic, East South Central, and Mountain States was of the long grain type (table 9). A significant proportion of medium grain rice was sold in all nine regions, ranging from 17.1 percent of the total in the Mountain region to 65.8 percent in the West North Central region. Distribution of short grain rice was concentrated largely in the Pacific, Middle Atlantic, and Mountain States. The Pacific region showed the largest proportional use of short grain rice, which accounted for nearly 10 percent of all rice distributed to that region. On a national basis, a little over 3 percent of the rice distributed for direct food use was of the short grain type.

Over 2.4 million hundredweight of milled rice was utilized in specialty rice products (table 3). Practically all of the rice used for these products was long grain. Nearly 60 percent of the long grain rice used was parboiled.

Processed Food Use

About 3.4 million hundredweight of rice was distributed for processed food use; 1.4 million hundredweight of this was identified as short grain rice (table 4). Slightly over 1 million hundredweight was medium grain. Long grain rice accounted for less than 1 percent of the total, and rice products other than head rice accounted for the remainder.

Use by Brewers

Although most rice used by brewers is broken rice which cannot be identified by type, about 1.6 million hundredweight of medium grain and about 0.3 million hundredweight of short grain rice was used in 1973/74 (table 4). Use of broken rice increased only 7 percent, but use of medium grain rice more than doubled from 1972/73. Brewers apparently had trouble locating adequate supplies of broken rice and were forced to purchase whole grain rice instead.

Military

All of the nearly 69,000 hundredweight of rice used to feed the Armed Forces was long grain (table 5). Another 11,000 hundredweight distributed was brand name packaged rice sold through overseas commissaries and was not identified by type.

Territories and Exports

Most of the 3.7 million hundredweight of rice shipped to the Territories went to Puerto Rico (table 6). Over 79 percent of all rice distributed to the Territories was short grain, up 15 percent from 1972/73; less than 3 percent was long grain. The percentage shares of this market declined in 1973/74 for both long and medium grain.

The shares of the export market for long, medium, and short grain rice were approximately 54, 41, and 5 percent, respectively, practically unchanged from the previous year. Long grain rice went mainly to commercial markets, but medium grain accounted for the largest proportion of PL-480 shipments.

DISTRIBUTION BY PACKAGE SIZE

Over one-third of the rice distributed domestically was shipped in bulk form. Almost half of the 13.2 million hundredweight distributed for direct food use was delivered in packages of 5 pounds or less (table 8). The remainder was divided about evenly between package sizes of 5.1 to 25 pounds, and over 25 pounds.

Regions where rice consumption is high received a larger share of rice in packages larger than 5 pounds. A third of the rice distributed to the Middle Atlantic region for direct food use was distributed in packages of 5.1 to 25 pounds, and nearly 40 percent of the rice shipped to the Pacific region was distributed in packages greater than 25 pounds.

About half of the rice shipped to the Territories was in packages of 5 pounds or less, and most of the remainder was shipped in packages in excess of 25 pounds.

Most of the rice exported was shipped in 100-pound bags. Package sizes of 25 pounds and under accounted for less than 3 percent of the total.

Table 1--Milled rice: Distribution to specified U.S. outlets, 1956/57 to 1973/74 1/

Year 2/	Unit	Outlet				Total 4/
		Direct food use 3/	Processed food use	Total food use	Use by brewers	
1956/57:						
Quantity	1,000 cwt.	8,707.7	1,560.6	10,268.3	2,776.4	13,044.7
Percent of total	Percent	66.7	12.0	78.7	21.3	100.0
1961/62:						
Quantity	1,000 cwt.	11,294.8	2,270.5	13,565.3	2,982.4	16,547.7
Percent of total	Percent	68.3	13.7	82.0	18.0	100.0
1966/67:						
Quantity	1,000 cwt.	11,087.0	2,961.1	14,048.1	3,147.5	17,195.6
Percent of total	Percent	64.5	17.2	81.7	18.3	100.0
1972/73:						
Quantity	1,000 cwt.	13,325.3	3,174.4	16,499.7	4,553.7	21,053.4
Percent of total	Percent	63.3	15.1	78.4	21.6	100.0
1973/74:						
Quantity	1,000 cwt.	13,181.5	3,413.8	16,595.3	5,193.8	21,789.1
Percent of total	Percent	60.5	15.7	76.2	23.8	100.0

1/ Data include Alaska and Hawaii and exclude territories.

2/ Marketing year beginning Aug. 1.

3/ Includes rice distributed from Commodity Credit Corporation stocks to schools, institutions, and welfare agencies.

4/ Does not include rice for military use or for starch, feed, and other miscellaneous purposes.

Source: 1956/57 and 1961/62 from Distribution Patterns of Rice in the United States. U.S. Dept. of Agr., ERS-186, July 1964; 1966/67 from Distribution of Rice in the United States, 1966/67, U.S. Dept. of Agr., ERS-408, Apr. 1969; 1972/73 from U.S. Rice Distribution Patterns, 1972/73, U.S. Dept. of Agr., ERS-567, Nov. 1974; and 1973/74 from survey.

Table 2--Government distribution: Shipments to specified outlets by regions and territories, 1972/73 and 1973/74

Region 1/	1972/73 2/				1973/74 2/			
	Schools	Institutions	Welfare agencies	Total 3/	Schools	Institutions	Welfare agencies	Total 3/
				1,000 hundredweight				
New England	8.5	4.4	54.1	67.0	10.0	4.3	47.8	62.1
Middle Atlantic	25.4	11.3	4/	36.7	23.8	12.4	4/	36.2
East North Central	15.8	9.6	12.4	37.9	22.2	9.0	8.4	39.6
West North Central	7.8	4.0	27.9	39.7	9.1	4.0	20.6	[illegible]
South Atlantic	60.9	17.4	50.9	129.1	61.1	16.5	31.4	109.0
East South Central	20.5	4.0	51.1	75.6	22.1	4.3	22.9	49.3
West South Central	54.7	12.0	115.5	182.2	65.4	12.1	28.8	106.4
Mountain	8.0	1.8	14.8	24.6	8.9	1.9	4.8	15.6
Pacific	22.5	10.6	42.0	75.1	23.5	10.0	29.9	63.4
U.S.	224.2	75.0	369.4	668.6	246.1	74.4	[illegible]	516.4
Territories 3/	117.6	9.8	300.0	427.4	[illegible]	12.6	[illegible]	[illegible]
U.S. and Territories 3/	341.8	84.9	669.4	1,096.1	[illegible]	87.0	[illegible]	[illegible]

1/ See table 8 for States in each region.

2/ Year beginning July 1.

3/ Figures may not add to totals because of rounding.

4/ Less than 50 cwt.

Source: 1972/73 from U.S. Rice Distribution Patterns, 1972/73, U.S. Dept. of Agr., ERS-[illegible], Nov. [illegible] and 1973/74 from Food and Nutr. Serv. records, U.S. Dept. of Agr.

Table 3--Specialty rice: Quantity and types of rice used, United States and Territories, 1972/73 and 1973/74

Year and class of specialty rice 1/	Type of rice: Long	Medium	Short	Total
	1,000 hundredweight			
1972/73				
Parboiled	1,605.9	0	4.2	1,610.1
Precooked 2/	763.1	0	0	763.1
Brown	243.5	19.5	74.5	337.5
Other 3/	58.0	0	0	58.0
Total	2,670.5	19.5	78.7	2,768.7
1973/74				
Parboiled	1,393.7	2.5	2.3	1,398.5
Precooked 2/	819.5	0	0	819.5
Brown	55.5	18.8	93.0	167.3
Other 3/	64.7	0	0	64.7
Total	2,333.4	21.3	95.3	2,450.0

1/ Year beginning Aug. 1.

2/ Includes regular milled rice processed into specialty rice by repackagers. Does not include specialty rice that may have been distributed by the Government.

3/ Mostly flavored rice.

Source: 1972/73 from U.S. Rice Distribution Patterns, 1972/73, U.S. Dept. of Agr., ERS-567, Nov. 1974; and 1973/74 from survey.

Table 4 --Processed rice: Distribution to U.S. food manufacturers by type of rice, 1972/73 and 1973/74 1/

Year and type of rice	Product						Total 2/	Percentage of total 3/
	Cereal	Soup	Baby food	Package mixes	Beer	Other		
	1,000 hundredweight							Percent
1972/73								
Long grain	54.1	367.1	.6	168.0	0	18.1	607.9	7.9
Medium grain	941.2	0	0	0	652.9	36.8	1,630.9	21.1
Short grain	1,043.6	0	4/	0	317.3	0	1,361.0	17.6
Broken	327.2	0	141.5	0	2,678.8	20.1	3,167.6	41.0
Mill run	5.9	.1	0	0	899.1	0	905.1	11.7
Brewers	.3	0	0	0	5.6	0	5.9	.1
Flour	0	0	7.8	42.0	0	0	49.7	.6
Total 2/	2,372.3	367.2	149.9	210.0	4,553.7	75.0	7,728.1	100.0
Percent 3/	30.7	4.8	1.9	2.7	58.9	1.0	100.0	
1973/74								
Long grain	31.7	103.1	0	107.4	0	4/	242.2	2.8
Medium grain	1,004.7	0	0	0	1,565.9	136.0	2,706.6	31.4
Short grain	1,404.1	0	0	4.8	314.2	0	1,723.1	20.0
Broken	348.6	0	116.5	0	2,856.7	117.9	3,439.7	40.0
Mill run	0	0	0	0	433.0	0	433.0	5.0
Brewers	0	0	0	0	24.0	0	24.0	.3
Flour	0	0	0	39.0	0	0	39.0	.5
Total 2/	2,789.1	103.1	116.5	151.2	5,193.8	253.9	8,607.6	100.0
Percent 3/	32.4	1.2	1.4	1.8	60.3	2.9	100.0	

1/ Marketing year begins Aug. 1. Totals do not include purchases from Commodity Credit Corporation or imports. Changes in stocks of rice from the beginning to end of year are not accounted for in these data.

2/ Figures may not add to totals because of rounding.

3/ Computed from unrounded data.

4/ Less than 50 cwt.

Source: 1972/73 data from U.S. Rice Distribution Patterns, 1972/73, U.S. Dept. of Agr., ERS-567, Nov. 1974; and 1973/74 from survey.

Table 5--Milled rice: Department of Defense purchases by use and package size, 1972/73 and 1973/74 1/

Use and package size	Total quantity	Type: Long	Type: Medium	Type: Short	Specialty rice 2/
	Cwt.	- - - - - - - - Percent	- - - - - - - -		
1972/73					
Specification for Armed Forces feeding:	55,320	100	---	---	100
5 pounds or less	0	---	---	---	---
Over 5 pounds but less than 25 pounds	51,372	100	---	---	100
Over 25 pounds	3,948	100	---	---	100
Brand name for resale in overseas military commissaries: 3/	95,788	NA	NA	NA	100
5 pounds or less	48,701	NA	NA	NA	NA
Over 5 pounds but less than 25 pounds	41,626	NA	NA	NA	NA
Over 25 pounds	5,461	NA	NA	NA	NA
Direct purchase for overseas indigenous feeding:	62,370	100	---	---	100
5 pounds or less	62,370	100	---	---	100
Total	213,478	NA	NA	NA	100
1973/74					
Specification for Armed Forces feeding:	68,696	100	---	---	100
5 pounds or less	0	---	---	---	---
Over 5 pounds but less than 25 pounds	67,428	100	---	---	100
Over 25 pounds	1,268	100	---	---	100
Brand name for resale in overseas military commissaries: 3/	11,572	NA	NA	NA	NA
5 pounds or less	1,193	NA	NA	NA	NA
Over 5 pounds but less than 25 pounds	8,623	NA	NA	NA	NA
Over 25 pounds	1,756	NA	NA	NA	NA
Direct purchase for overseas indigenous feeding	0	---	---	---	---
Total	80,268	NA	NA	NA	100

1/ Year beginning Aug. 1.

2/ Parboiled, precooked, brown and flavored rice.

3/ Does not include rice sold in nonmilitary commissaries.

NA = Not available.

Source: Defense Supply Agency, Headquarters Defense Personnel Support Center records, U.S. Dept. of Def.

Table 6--Milled rice: Distribution for direct food use in U.S. Territories, by distributor, by package size, type of grain, and per capita, 1972/73 and 1973/74 1/

Year and territory	Quantity distributed: By millers and repackagers 2/: 5 pounds or less	5.1-25 pounds	Over 25 pounds	By Government 3/	Total 2/	Percentage of U.S. total	Per capita 4/	Type 5/: Long	Medium	Short	Specialty rice 6/
	- - - -	- - 1,000 hundredweight	- - - -	- - - -	- - - -	Percent	Pounds	- - - -	- - Percent	- - - -	- - - -
1972/73											
Puerto Rico	2,262.3	730.3	336.0	390.0	3,718.6	93.8	132.[illegible]	6.7	10.9	[illegible].4	.6
Virgin Islands	31.4	10.3	.8	3.8	46.4	1.2	65.3	73.9	---	26.1	49.5
Guam	6.3	23.1	101.2	1.8	132.4	3.3	176.5	7/	100.0	---	7/
American Samoa	7/	---	---	.9	.9	7/	3.1	100.0	---	---	100.0
Other 8/	2.7	6.3	25.4	30.9	65.4	1.7	32.5	7/	71.6	28.4	7/
Total	2,302.8	770.0	463.5	9/427.4	9/3,963.7	100.0	[illegible]	[illegible].1	24.1	68.[illegible]	[illegible]
1973/74											
Puerto Rico	1,886.8	330.5	865.[illegible]	344.1	3,426.[illegible]	91.6	12[illegible]	2.[illegible]	12.[illegible]	84.9	.5
Virgin Islands	26.8	17.6	.8	3.9	49.1	1.3	69.[illegible]	55.6	---	44.4	40.[illegible]
Guam	3.7	44.8	144.3	1.7	194.5	5.2	259.[illegible]	---	[illegible]	7.3	7/
American Samoa	7/	---	---	1.0	1.0	7/	3.4	100.0	---	---	100.0
Other 8/	.2	5.7	35.1	29.[illegible]	70.8	1.9	---	---	58.8	41.2	---
Total	1,917.[illegible]	398.6	1,045.5	9/380.5	9/3,742.1	100.0	121.[illegible]	2.9	17.[illegible]	79.[illegible]	[illegible]

1/ Includes all rice distributed for direct food use by civilian population. Marketing year beginning Aug. 1.

2/ Figures may not add to totals because of rounding.

3/ Compiled by Food and Nutr. Serv. Includes rice distributed by USDA to schools, institutions, and welfare agencies for fiscal year. Does not include rice distributed to U.S. Armed Forces.

4/ The Feb. 1, 1973 and 1974 estimated civilian population interpolated from Bureau of Census estimates were used in per capita calculations.

5/ Does not include rice distributed by Government.

6/ Includes parboiled, precooked, brown, and other than regularly milled rice distributed by mills and repackagers. Percentages are based on total quantities of rice distributed less Government distribution.

7/ Rounded to less than 0.1 percent.

8/ Trust Territories (the Marshall, Mariana, and Caroline Islands).

9/ Excludes 35,73[illegible] pounds in 1972/73 and 52,6[illegible] pounds in 1973/74 distributed to American schools for children of military personnel serving in Europe, Japan, and Okinawa.

Source: 1972/73 data from U.S. Rice Distribution Patterns, 1972/73, U.S. Dept. of Agr., [illegible], Nov. 1974; and 1973/74 from survey data. Government data from Food and Nutr. Serv. records, U.S. Dept. of Agr.

Table 7--Milled rice: Distribution for direct food use by region, 1972/73 and 1973/74 1/

Region 2/	Distribution as percentage of U.S. total		Rank by percentage of U.S. total	
	1972/73	1973/74	1972/73	1973/74
	Percent		Number	
Middle Atlantic	23.3	26.2	1	1
Pacific	21.4	22.5	2	2
South Atlantic	16.3	16.9	3	3
West South Central	16.3	13.1	4	4
East North Central	8.4	9.0	5	5
West North Central	5.7	4.4	6	6
New England	3.6	3.2	7	7
East South Central	3.3	2.9	8	8
Mountain	1.7	1.8	9	9
U.S. Total	100.0	100.0	---	---

Region 2/	Amount distributed per capita		Rank by distribution per capita	
	1972/73	1973/74	1972/73	1973/74
	Pounds		Number	
Pacific	10.6	11.1	2	1
Middle Atlantic	8.3	9.2	3	2
West South Central	10.9	8.7	1	3
South Atlantic	6.8	7.0	4	4
New England	4.0	3.6	6	5
West North Central	4.6	3.5	5	6
East South Central	3.4	3.0	7	7
East North Central	2.8	2.9	8	8
Mountain	2.5	2.6	9	9
U.S. Total	6.4	6.4	---	---

1/ Includes all rice distributed for direct food use by civilian population, including rice distributed by USDA to schools, institutions, and welfare agencies and apparently includes commercial sales to military commissaries operated in the United States. Marketing year beginning Aug. 1.

2/ See table [illegible] for the States in each region.

Source: 1972/73 data from U.S. Rice Distribution Patterns, 1972/73, U.S. Dept. of Agr., ERS-567, Nov. 1974; 1973/74 data from survey.

Table 8--Milled rice: Distribution for direct food use by State, region, package size, type of grain, and per capita, 1973/74 1/

State and region	Quantity distributed: By millers and repackagers: 5 pounds or less	Quantity distributed: By millers and repackagers: 5.1-25 pounds	Quantity distributed: By millers and repackagers: Over 25 pounds	Quantity distributed: By Government 3/	Quantity distributed: Total 4/	Quantity distributed: Percentage of U.S. total 4/	Quantity distributed: Per capita 5/	Type 2/: Long	Type 2/: Medium	Type 2/: Short	Specialty rice 6/
	- - - - - - 1,000 hundredweight	- - - - - -	- - - - - -	- - - - - -	- - - - - -	Percent	Pounds	- - - - - -	Percent	- - - - - -	- - - - - -
Maine	10.4	1.9	.1	14.0	26.4	.2	2.6	53.0	47.0	---	46.5
New Hampshire	8.8	1.4	.2	3.1	13.5	.1	1.7	85.7	14.3	---	70.0
Vermont	2.7	.6	.1	.8	4.2	7/	.9	67.7	32.3	---	64.8
Massachusetts	133.3	24.4	70.9	40.0	268.6	2.0	4.6	75.1	23.5	1.4	40.3
Rhode Island	13.9	1.4	.8	.7	16.8	.1	1.8	66.8	33.2	---	48.6
Connecticut	70.9	17.2	7.0	3.6	98.7	.8	3.2	69.0	31.0	---	49.7
New England	240.1	46.9	79.0	62.1	428.2	3.2	3.6	72.7	26.4	.9	44.4
New York	727.8	583.5	693.4	20.3	2,025.0	15.4	11.1	65.2	29.7	5.1	17.0
New Jersey	467.0	535.6	66.5	4.9	1,074.0	8.2	14.7	30.7	69.3	---	17.6
Pennsylvania	276.3	28.5	32.4	11.0	348.2	2.6	2.9	74.2	25.7	.1	34.1
Middle Atlantic	1,471.1	1,147.7	792.2	36.2	3,447.2	26.2	9.2	55.3	41.7	3.0	18.9
Ohio	152.7	24.9	39.4	8.8	225.8	1.7	2.1	64.7	35.3	---	46.1
Indiana	30.0	4.5	19.7	9.2	63.4	.5	1.2	70.4	29.6	---	47.5
Illinois	279.9	131.0	170.5	11.6	593.0	4.5	5.3	64.2	35.2	.6	21.5
Michigan	160.1	18.7	40.3	5.3	224.5	1.7	2.5	80.1	18.8	1.1	36.2
Wisconsin	60.6	5.6	12.8	4.6	83.5	.6	1.8	77.1	22.9	---	49.6
East North Central	683.3	184.7	282.7	39.6	1,190.3	9.0	2.9	68.5	31.0	.5	32.1
Minnesota	76.6	6.5	19.2	6.2	108.6	.8	2.8	53.8	45.1	1.1	30.0
Iowa	24.3	2.3	3.9	2.3	32.7	.2	1.1	41.8	58.2	---	34.0
Missouri	62.6	9.3	264.8	15.5	352.2	2.7	7.5	20.7	79.2	.1	9.7
North Dakota	6.2	.7	.6	2.3	9.8	.1	1.6	70.7	23.9	5.4	57.5
South Dakota	4.4	.4	.3	3.2	8.2	.1	1.2	61.6	38.4	---	32.1
Nebraska	18.9	2.3	1.5	.7	23.5	.2	1.5	59.3	40.6	7/	36.0
Kansas	29.5	6.1	2.7	3.6	42.0	.3	1.9	63.8	36.1	.1	35.4
West North Central	222.5	27.6	293.0	33.8	576.9	4.4	3.5	33.9	65.8	.3	18.7
Delaware	[illegible]	.2	3.1	4.4	8.2	.1	1.4	14.9	85.1	---	7.[illegible]
Maryland	143.3	27.5	18.5	4.5	193.9	1.5	4.8	67.7	31.5	.8	36.0
District of Columbia	13.4	8.9	20.6	1.6	44.5	.3	6.0	90.4	9.6	---	28.9
Virginia	66.5	16.1	10.4	14.4	107.4	.8	2.3	58.4	41.6	---	35.6
West Virginia	7.1	.5	.3	1.5	9.4	.1	.5	41.4	58.6	---	38.7
North Carolina	185.6	108.1	11.2	20.8	325.8	2.5	6.3	84.2	15.7	.1	18.1
South Carolina	180.7	128.4	30.1	16.3	355.5	2.7	13.5	67.9	32.1	---	10.1
Georgia	188.4	103.8	84.9	29.6	406.6	3.1	8.6	53.1	41.5	5.4	12.7
Florida	452.6	191.6	108.7	17.0	769.9	5.8	10.3	93.5	6.0	.5	20.3
South Atlantic	1,238.2	585.2	287.8	110.0	2,221.2	16.9	7.0	76.6	22.2	1.2	19.3

Footnotes at end of table.

--continued

Table 8.--Milled rice: Distribution for direct food use by [illegible], [illegible], [illegible]
type of grain, and per capita, 1971/72 1/--Continued

State and region	Quantity distributed: By millers and repackagers: 5 pounds or less	5.1-25 pounds	Over 25 pounds	By Government 3/	Total 4/	Percentage of U.S. total 6/	Per capita 5/	Type of grain 2/: Long	Medium	Short	Specialty rice 6/
	- - - - - - 1,000 hundredweight			- - - - - -		Percent	Pounds	- - - - - - Percent			- - -
Kentucky	[illegible]	1.8	[illegible]	4.9	35.5	.3	[illegible]	52.8	[illegible]	[illegible]	38.1
Tennessee	[illegible]	12.[illegible]	4.8	4.8	84.6	.6	[illegible]	59.9	40.[illegible]	---	27.9
Alabama	123.[illegible]	6.4	3.5	23.3	156.4	1.2	4.9	81.1	18.6	.3	18.2
Mississippi	76.6	12.[illegible]	6.7	16.3	111.9	.8	5.0	[illegible]	11.7	---	13.7
East South Central	291.1	[illegible]	15.4	49.3	388.4	[illegible]	3.0	[illegible]	[illegible]	[illegible]	20.1
Arkansas	31.7	3.6	12.6	3.7	51.7	.4	2.6	61.8	37.[illegible]	[illegible]	17.[illegible]
Louisiana	443.2	410.7	83.3	47.4	984.6	7.5	26.4	58.[illegible]	41.[illegible]	[illegible]	[illegible]
Oklahoma	26.0	3.3	3.3	17.4	50.0	.4	1.9	62.4	[illegible]	[illegible]	34.1
Texas	[illegible]	87.0	148.6	37.8	638.2	4.8	5.5	75.[illegible]	[illegible]	.3	23.1
West South Central	865.6	504.6	247.8	106.4	1,724.4	13.1	8.7	64.9	[illegible]	.4	11.9
Montana	8.3	1.7	7/	2.3	12.4	.1	1.7	[illegible]	28.4	[illegible]	38.1
Idaho	12.3	1.1	5.3	2.0	20.7	.2	[illegible]	77.0	18.6	4.3	24.1
Wyoming	.4	.3	.1	.5	1.3	7/	.4	[illegible]	15.6	1.5	48.6
Colorado	49.0	7.7	11.2	1.7	69.6	.5	3.0	[illegible]	12.4	3.2	[illegible]
New Mexico	7.6	2.3	3.3	2.1	15.3	.1	[illegible]	77.6	22.4	--	40.[illegible]
Arizona	50.5	4.7	9.6	3.7	68.5	[illegible]	3.4	79.8	18.8	1.4	[illegible]
Utah	14.0	5.4	14.8	2.4	36.6	.3	[illegible]	77.0	21.[illegible]	1.5	33.8
Nevada	1.8	4.3	3.4	1.0	10.6	.1	2.0	99.6	---	.4	59.[illegible]
Mountain	143.9	27.7	47.8	15.6	235.0	1.8	2.6	80.8	17.1	2.1	37.2
Washington	63.0	25.5	57.4	4.0	149.9	1.1	4.4	56.2	24.1	19.[illegible]	23.3
Oregon	39.[illegible]	14.0	48.5	4.7	106.5	.8	4.8	65.8	19.8	14.[illegible]	20.9
California	[illegible]	545.6	917.7	45.3	2,[illegible].1	17.0	11.1	52.6	37.2	10.2	15.[illegible]
Alaska	3.4	1.5	.1	.9	5.9	7/	2.0	98.2	---	1.8	84.4
Hawaii	21.8	278.7	157.4	8.6	466.5	3.5	60.5	3.5	94.8	1.7	1.[illegible]
Pacific	860.0	[illegible]	1,181.2	63.[illegible]	2,969.9	[illegible]	[illegible]	[illegible]	44.9	[illegible]	13.8
U.S. Total	6,015.8	3,422.4	3,226.9	516.4	13,181.5	100.0	6.[illegible]	59.6	[illegible]	[illegible]	19.1

1/ Marketing year beginning Aug. 1.
2/ Does not include rice distribution by Government.
3/ Breakdown of Government distribution by package size was not available. Quantity distribution by Government was compiled by Food Nutr. Serv. and includes only the rice distributed through schools, institutions, and welfare agencies (July 1-June 30) and does not include rice distributed to Armed Forces.
4/ Figures may not add to totals because of rounding.
5/ Feb. 1, 1972 civilian resident population estimates, interpolated from Bureau of Census estimates, were used in per capita calculations.
6/ Specialty rice includes parboiled, precooked, brown, and other than regularly milled rice distributed by mills and repackagers. Percentages are based on total quantities of rice distributed, excluding Government distribution.
7/ Rounded to less than 0.1 percent.

Source: All except Government distribution data from survey. Government data from Food and Nutr. Serv. records, U.S. Dept. of Agr.

Table 9--Milled rice: distribution for direct food use by region, package size, type of grain, and per capita, 1972/73 and 1973/74 1/

Region and year 2/	Quantity distributed					Percentage of U.S. total 5/	Per capita 6/	Type 3/			Specialty rice 7/
	By millers and repackagers			By Government 4/	Total 5/						
	5 pounds or less	5.1-25 pounds	Over 25 pounds					Long	Medium	Short	
	1,000 hundredweight					Percent	Pounds	Percent			
New England:											
1972/73	208.5	40.3	165.2	67.0	481.0	[illegible]	[illegible]	83.6	15.5	.9	38.9
1973/74	240.1	[illegible]	79.0	[illegible]	[illegible]	[illegible]	[illegible]	72.7	26.4	.9	44.4
Middle Atlantic:											
1972/73	1,642.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23.7	2.5	20.8
1973/74	1,471.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	55.3	41.7	3.0	18.9
East North Central:											
1972/73	653.0	160.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	71.8	27.9	.3	[illegible]
1973/74	683.3	[illegible]	282.7	[illegible]	[illegible]	[illegible]	[illegible]	68.5	31.0	.5	32.1
West North Central:											
1972/73	543.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	15.4
1973/74	222.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	33.9	65.8	.3	[illegible]
South Atlantic:											
1972/73	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16.7	.1	19.7
1973/74	1,238.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	76.6	22.2	1.2	[illegible]
East South Central:											
1972/73	314.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	17.3
1973/74	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.3	[illegible]	20.1
West South Central:											
1972/73	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28.4	8/	27.9
1973/74	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	35.0	.1	11.2
Mountain:											
1972/73	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.7	[illegible]	83.4	14.7	[illegible]	[illegible]
1973/74	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	80.8	17.1	2.1	37.2
Pacific:											
1972/73	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	47.4	4.9	13.4
1973/74	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	44.9	[illegible]	[illegible]
U.S. total:											
1972/73	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	100.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1973/74	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	100.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

1/ For States included in each region, see [illegible].

2/ Marketing year beginning Aug. 1.

3/ Does not include rice distributed by [illegible].

4/ Breakdown of Government distribution [illegible] Nutrition Service staff and [illegible] rice distribution to Armed Forces.

5/ Figures may not add [illegible] rounding.

6/ Feb. 1, 1972 and Feb. 1, 1973 [illegible] estimates, respectively, were used in per capita calculations.

7/ Specialty rice includes parboiled, precooked, brown and other [illegible] by millers and repackagers.

8/ [illegible]

Source: 1972/73 data from [illegible] except Government distribution data for 1973/74 [illegible].

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